

IN THE CLAIMS

Please amend the claims to be in the form as follows:

Claim 1 (original): Digital transmission system having a transmitter and a receiver for transmitting and receiving a digital audio signal, the digital audio signal being in the form of samples of a specific wordlength and occurring at a specific sampling rate, the transmitter comprising:

- input means for receiving the digital audio signal and for receiving a first information word having a relationship with the specific wordlength and a second information word having a relationship with the specific sampling rate,
- formatting means for combining the digital audio signal and the first and second information words into a serial datastream suitable for transmission via a transmission medium, the wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate being equal to $2^p F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz.

Claim 2 (original): Digital transmission system as claimed in claim 1, wherein F_s is equal to a frequency value taken from a group of at least three frequency values, said group of frequency values including 32 kHz, 44.1 kHz and 48 kHz.

Claim 3 (original): Digital transmission system as claimed in claim 1 or 2, wherein the formatting means comprises channel encoding means for channel encoding at least the digital audio signal so as to obtain said serial datastream

Claim 4 (original): Digital transmission system as claimed in claim 1 or 2, wherein the formatting means comprises error correction encoding means for error correction encoding at least the digital audio signal so as to obtain said serial datastream.

Claim 5 (currently amended): Digital transmission system as claimed in claim 1, ~~2, 3 or 4,~~ wherein the transmitter further comprises a sigma-delta modulator and at least one lowpass filter

and down sampler unit, the sigma-delta modulator being adapted to receive an analog audio signal and for supplying a 1-bit bitstream audio signal in response thereto, the at least one lowpass filter and down sampler unit being adapted to down sample the 1-bit bitstream signal so as to obtain a down sampled digital audio signal, and for supplying the down sampled digital audio signal to the input means.

Claim 6 (original): Digital transmission system as claimed in claim 5, wherein the lowpass filter and downsampler unit realizes a down sampling with a factor 2^r , where r is an integer larger than zero.

Claim 7 (currently amended): Digital transmission system as claimed in ~~anyone of the preceding claims~~ claim 1, wherein the receiver comprises:

- input means for receiving the serial datastream from the transmission medium,
- retrieval means for retrieving the first and second information words from the serial datastream, for retrieving the digital audio signal from the serial datastream using the first information word,
- sample rate conversion means for converting the sampling rate of the samples in the digital audio signal supplied by the retrieval means from the sampling rate defined by the second information word into a second sampling rate so as to obtain an in sample rate converted digital audio signal, wherein the second sampling rate is equal to $2^q \cdot F_s'$, where q is an integer larger than zero and F_s' is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz, the samples in said in sample rate converted digital audio signal having a specific wordlength, and
- output means for supplying the in sample rate converted digital audio signal at said second sampling rate.

Claim 8 (original): Digital transmission system as claimed in claim 7, wherein F_s' equals 48 kHz.

Claim 9 (original): Digital transmission system as claimed in claim 7 or 8, wherein the receiver further comprises D/A conversion means for converting the in sample rate converted digital audio signal into an analog audio signal.

Claim 10 (currently amended): Digital transmission system as claimed in claim 7, ~~8 or 9~~, wherein the sample rate conversion means comprise:

- upsampling means for upsampling the digital audio signal so as to obtain an upsampled digital audio signal having a sampling rate equal to $2^q F_s$,
- variable hold means for variably holding the samples of the upsampled digital audio signal so as to obtain the in sample rate converted digital audio signal.

Claim 11 (currently amended): Digital transmission system as claimed in claim ~~anyone of the claims 7 to 10~~, wherein the input means comprise channel decoding means for channel decoding the serial datastream.

Claim 12 (currently amended): Digital transmission system as claimed in claim ~~anyone of the claims 7 to 10~~, wherein the input means comprise error correction means for carrying out an error correction step on a signal applied to the input of the error correction means.

Claim 13 (currently amended): Transmitter for use in a transmission system as claimed in claim ~~anyone of the claims 1 to 6~~, characterized by those features in claim ~~the claims 1, 2, 3, 4, 5 or 6~~ that characterize the transmitter.

Claim 14 (original): Transmitter as claimed in claim 13, wherein the transmitter is in the form of a recording apparatus for recording the serial datastream in a track on a record carrier, the formatting means further comprising writing means for writing the serial datastream in said track on the record carrier.

Claim 15 (currently amended): Receiver for use in a transmission system as claimed in claim ~~anyone of the claims 7 to 12~~, characterized by those features in claim ~~the claims 7, 8, 9, 10, 11 or 12~~ that characterize the receiver.

Claim 16 (original): Receiver as claimed in claim 15, wherein the receiver is in the form of a reproducing apparatus for reproducing the serial datastream from a track on a record carrier, the

input means further comprising reading means for reading the serial datastream from said track on the record carrier.

Claim 17 (original): Record carrier obtained with the transmitter as claimed in claim 14, a serial datastream being recorded in a track on said record carrier, said serial datastream comprising samples of a digital audio signal and a first and a second information word included in said serial datastream, the first information word having a relationship with the wordlength of the samples in said digital audio signal and the second information word having a relationship with the sampling rate of the samples in said digital audio signal, the wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate of the samples in the digital audio signal being equal to $2^p \cdot F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz.

Claim 18 (original): Method of transmitting a digital audio signal, the digital audio signal being in the form of samples of a specific wordlength and occurring at a specific sampling rate, the transmission method comprising the steps of:

- receiving the digital audio signal
- receiving a first information word having a relationship with the specific wordlength and a second information word having a relationship with the specific sampling rate,
- combining the digital audio signal and the first and second information words into a serial datastream suitable for transmission via a transmission medium, the wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate being equal to $2^p \cdot F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz.

Claim 19 (currently amended): Transmission signal comprising samples of a digital audio signal and a first and a second information word, the first information word having a relationship with the wordlength of the samples in said digital audio signal and the second information word having a relationship with the sampling rate of the samples in said digital audio signal, the

wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate of the samples in the digital audio signal being equal to $2^p \cdot F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz, such that electronic circuitry receiving the transmission signal can be caused to generate a sample rate converted audio signal.

Claim 20 (original): Transmission system as claimed in claim 7, wherein the transmitter further comprises lossless compression means for carrying out a substantially lossless data compression step on the digital audio signal so as to obtain a data compressed digital audio signal for transmission via the transmission medium, the receiver further comprising lossless expansion means for carrying out a data expansion step on the data compressed digital audio signal in the transmission signal so as to obtain a replica of the digital audio signal.

Claim 21 (new): A transmitter that for transmitting receiving a digital audio signal, the digital audio signal being in the form of samples of a specific wordlength and occurring at a specific sampling rate, the transmitter comprising:

- an input configured to receive the digital audio signal, a first information word having a relationship with the specific wordlength and a second information word having a relationship with the specific sampling rate,
- a formatter that combines the digital audio signal and the first and second information words into a serial datastream suitable for transmission via a transmission medium, the wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate being equal to $2^p \cdot F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz.

Claim 22 (new): Digital transmission system having a transmitter and a receiver for transmitting and receiving a digital audio signal, the digital audio signal being in the form of samples of a specific wordlength and occurring at a specific sampling rate, the transmitter comprising:
an input device configured to receive the digital audio signal, a first information

word having a relationship with the specific wordlength and a second information word having a relationship with the specific sampling rate,

a formatter that combines the digital audio signal and the first and second information words into a serial datastream suitable for transmission via a transmission medium, the wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate being equal to $2^p \cdot F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz.

wherein the receiver comprises:

an input device that receives the serial datastream from the transmission medium,

a retrieval mechanism that retrieves the first and second information words from the serial datastream, and that retrieves the digital audio signal from the serial datastream using the first information word,

a sample rate converter that converts the sampling rate of the samples in the digital audio signal supplied by the retrieval mechanism from the sampling rate defined by the second information word into a second sampling rate so as to obtain an in sample rate converted digital audio signal, wherein the second sampling rate is equal to $2^q \cdot F_s'$, where q is an integer larger than zero and F_s' is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz, the samples in said in sample rate converted digital audio signal having a specific wordlength, and

an output device that supplies the sample rate converted digital audio signal at said second sampling rate.

Claim 23 (new): A record carrier comprising:

a serial datastream being provided in a track on said record carrier, said serial datastream comprising samples of a digital audio signal and a first and a second information word included in said serial datastream, the first information word having a relationship with the wordlength of the samples in said digital audio signal and the second information word having a relationship with the sampling rate of the samples in said digital audio signal, the wordlength of the samples in the digital audio signal, expressed in number of bits, being equal to n , where n is an integer larger than zero, and the sampling rate of the samples in the digital audio signal being

equal to $2^p \cdot F_s$, where p is an integer larger than zero and F_s is equal to a frequency value taken from a group of at least two frequency values, said group of frequency values including 44.1 kHz and 48 kHz.